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ASOS CONFIGURATION CONTROL BOARD (ACCB)

ACCB Meeting Minutes of October 21, 2003

I. CONVENE - 9:30 A.M.

Meeting number 47 of the ASOS Configuration Control Board (ACCB) was held on Tuesday, October 21, 2003, in room 12246 of the Silver Spring Metro Center #2.

Members participating:

OST11 - Rick Ahlberg (Chair)
OPS22 - Dave Mannarano
OS32 - John Bradley
OS7 - Not Represented
AOP-1000 - Don Bui
ARS-200 - Paul Armbruster
AUA-430 - Vaughn Yates
ATB-460 - Not Represented
AFWA - Not Represented
SPAWARSYSCEN - Ed Heusinger
OS12 - Lewis Kozlosky (Exec. Sec.)

Advisors and guests included: Kevin Conaty (W/CIO12), Anthony Leonardo (W/OPS12), Fred Hauschildt (W/OPS14), Rick Parry (W/OPS22), Rich Bunevitch and Peggy Hoch (W/OPS23), Rob Ericson (W/OS12), Doug Gifford (W/OST32), Jim Brown and Edward Tatem (AOP-400), Jerry Kranz (AUA-430), LCDR Bill Nisley (CNO NO96), and A.N. Ananth and Joe Bharwada (Prism Communications).

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II. Review of Minutes

The August 26, 2003, minutes were approved as written.

III. Review of Action Item Table

Rick Ahlberg reported that previous actions reflected on the table were complete.

In reference to AA564 Development of Freezing Drizzle Algorithm (NWS680S), Rick Ahlberg stated that an OFCM meeting is scheduled for November 13. The RC was conditionally approved 8/26/03 based on the OFCM confirmation of precipitation rate reporting.

IV. Software Load Tables

There were no changes to the software load tables.

Lewis Kozlosky pointed out that the continuance of the ASOS Software Working Group, as it is now, has been questioned. Rick Ahlberg stated that the ASWG has completed the definition of future software loads, but its disposition is to be determined.

V. Items for Decision

There were no items for decision.

VI. RCs Processed or In Process

Lewis Kozlosky provided an RC status report of items adjudicated or received since the last meeting. Changes to the report are reflected in the complete summary listed below.

- o S00585 Urgent Special Observation for Volcanic Eruption (NWS330S)
Approval Decision Rescinded by ACCB (8/26/03)
- o AA564 Development of Freezing Drizzle Algorithm (NWS680S)
Approved Conditional on OFCM Coordination (See Action Item Table)

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- AB095 Move ASOS from Caliente, NV to Jackpot, NV (WRH309S) **In Coordination; Site Survey Pending**
- AB419 AOMC Data Update for USAF Sites with Omega Power Supply and Handar 25K Ceilometer (Air Force) **On Hold by Air Force Pending Determination of Acquisition Activities**
- AB518 Install VDU at Green Bay, WI (FAA229) **Approved 8/28/03**
- AB576 ADD UPS to ACU and DCP at Price, UT (WRH324S) **Approved 10/17/03**
- AB577 Move ACU at Indianapolis, IN (FAA230) **Approved 10/7/03**
- AB578 Move ACU at Richmond, VA (FAA231) **In Review**
- AB607 Move ACU at Topeka, KS (FAA234) **Approved 10/15/03**
- AB618 Move ACU and Add Temporary OID at Everett, WA (FAA235) **Approved 10/7/03**
- AB619 Connect ACE/IDS at Guam (FAA222) **Approved 10/9/03**
- AB620 Modify 425NWS Microcontroller Flash Programming Algorithm (V0005) **Fast Track Approved 9/12/03**
- AB622 Modify 425NWS Firmware from V2.005 to V3.00 (V0008) **Fast Track Approved 9/12/03**
- AB623 Modify 425NWS Verifier for Zero Point Calibration Stabilization (V0009) **Fast Track Approved 9/12/03**
- AB639 Move ACU at Columbia, MO (FAA236) **Withdrawn 9/16/03**
- AB642 Install VDU at Huntington, WV (FAA238) **Approved 10/14/03**
- AB644 Add VDU to Tucson, AZ Tracon (FAA239) **In Review**
- AB648 Remove OIDs and VDUs at Champaign, IL; Saginaw, MI; and Lincoln, NE (FAA240) **Approved 10/14/03**
- AB653 Correct 427008 Power Supply High In-Rush Current Problem (V0010) **Fast Track Approved 10/2/03**

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- o AB660 Remove OIDs and VDUs at Long Beach, CA and
 Pittsburgh/Alleghany County Airports (FAA242) **In Review**
- o AB662 Move Combined Sensor Group at Merced, CA (WRH328S)
 In Review

VII. Items for Discussion

Plans for Bringing Navy Systems Under NWS Configuration Management

____ Lieutenant Commander (LCDR) Nisley provided an introduction and summarized that Navy systems have diverged from the NWS/FAA configurations. He added that funding will be provided to upgrade Navy ASOSs with NWS Product Improvement technology. The new processor upgrade is the first item to be installed into Navy systems.

____ Ed Heusinger said the Determinations and Findings (D&F) document is in draft, as well as a Memorandum of Agreement (MOA) to allow NWS to accept funding from the Navy for ASOS upgrades and support.

A few Navy systems have been informally turned over to NWS for maintenance, but the systems are not included in the Product Improvement initiatives.

Funding will be available for the Navy to purchase Processors, Dewpoint sensors, and Ice-Free Wind sensors.

Jerry Kranz pointed out that the stand-alone lightning sensors are to be replaced with ALDARS interfaces. LCDR Nisley indicated the Navy has its own lightning sensors, but they are not interfaced to ASOS. Rick Ahlberg said the software support for ASOS lightning sensors will be kept in the system.

Ed Heusinger indicated that the Navy AWPAG implementation decision is to be determined.

Kevin Conaty asked if AOMC support will be included in the MOA, and Ed Heusinger indicated that it will.

____ Lewis Kozlosky asked if Navy Configuration Baseline documentation will be delivered to the NWS. Ed Heusinger said it should have been provided early in the program. Rick Ahlberg clarified that the documentation was purged

when the Navy originally decided not to participate in NWS field maintenance.

Rich Bunevitch asked if the Navy is maintaining software baseline documentation. Ed Heusinger replied that it is. Rich Bunevitch indicated that the Navy software will need to be delivered if the NWS is to maintain it.

Rick Ahlberg said some non-standard Navy sensors may not be supported by NWS software. Ed Heusinger replied that those sensors will be retrofitted with NWS-supported sensors where needed.

It was pointed out that there is an Air Force RC to upgrade systems with Omega Power supplies and 25K Ceilometers, but it is on hold pending the resolution of various acquisition issues. Doug Gifford indicated that there is a 25K algorithm, but it has not been fully tested.

Prism Communications Presentation on ASOS II Study

Ananth Ananth summarized that ASOS II is not a replacement for ASOS, but an effort to extend the life of ASOS by staving off software obsolescence. ASOS II efforts are defined such that they may be phased in over a period of time.

ASOS II Study efforts include:

- o Improvement of ACU-DCP Communications Link;
- o Redesigning of the DCP PROM;
- o Developing a Full-Fledged ADAS Simulator;
- o Redesigning of Internal ACU Tasking;
- o Removal of ACU and DCP Dead Code;
- o Optimizing Use of Battery Backed RAM;
- o Gathering Metrics to Improve Software Quality Assurance;
- o Implementing a New Embedded Kernel (to replace pSOS); and
- o Redesigning of Redundancy Scheme to address all Failure Modes.

The ACCB agreed the presentation could be given to the APMC for information.

VIII. Next Meeting

The next ACCB Meeting is tentatively scheduled for Tuesday, January 6, 2004, at 9:30 A.M. in Room 12246 of the SSMC2 Building in Silver Spring, Maryland.

IX. ADJOURNED 11:11

ASOS CONFIGURATION CONTROL BOARD ACTION ITEM/IMPLEMENTATION TABLE

ITEMS WITHOUT APPROVAL DATES MAY BE ELIGIBLE FOR FINAL VOTE UPON COMPLETION OF ACTION ITEMS.
FOCAL POINTS ARE RESPONSIBLE FOR REPORTING ACTION ITEM STATUS.

CHANGE/DATE	FOCAL PT	REQUIRED ACTION	AI STATUS	DUE
S00585 URGENT SPECIAL OBSERVATION FOR VOLCANIC ERUPTION (NWS330S) Previous Approval Rescinded 8/26/03	ROSS ARMBRUSTER	INVESTIGATE WHETHER RC SHOULD BE REVISED OR RESCINDED	RESCINDED	
AA564 DEVELOPMENT OF FREEZING DRIZZLE ALGORITHM (NWS680S) Approved Conditional on OFCM Coordination by Prichett (8/26/03)	ARMBRUSTER	INVESTIGATE WHETHER PRECIP ACCUMULATION RATE NEEDS TO BE REPORTED WITH FREEZING DRIZZLE AND IF SPECIS SHOULD BE ISSUED DUE TO ACCUMULATION RATE CHANGES.	COMPLETE	